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Other - LSU Faculty Candidate Seminar- Interdisciplinary Data Science and Biology Position

Mathematical modeling and optimization and their applications in biology

Yijie Wang, Computational Biology Branch of the National Institutes of Health

Research Fellow

Digital Media Center 1034 January 23, 2019 - 03:00 pm

Abstract:

Mathematical modeling and optimization are the key tools for scientific analysis of real-life systems. They are widely used in engineering, economics, and science. This talk is focused on applications of mathematical modeling and optimization in computational biology. Examples are given where modeling and optimization are used for topics ranging from gene regulatory network reconstruction, RNA complex drug delivery system design, and comparative analysis of single-cell experiments. Finally, several perspectives for future research are outlined.

Speaker's Bio:

I am a research fellow in the National Center for Biotechnology Information (NCBI) at National Institutes of Health (NIH) working with Dr. Teresa M. Przytycka. Before joining NCBI/NIH in 2015, I was a graduate student under the supervision of Prof. Xiaoning Qian and obtained my Ph.D. in Electrical Engineering from Texas A&M University. I received my B.S. and M.S. from Dalian University of Technology, China. I worked on developing parallel particle movement simulation algorithm with Dr. Allen McPherson at Los Alamos National Laboratory in 2012.

This lecture has refreshments @ 02:00 pm

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